

# POSSCON 2011

## Tracks

Technical

Big Picture

Education

Demo



**Bringing Open Source to the Southeast**  
DEVELOPERS • EDUCATORS • IT LEADERS IN BUSINESS, GOVERNMENT, HEALTHCARE AND SECURITY



# POSSCON 2011

## Technical

- AMQP, RabbitMQ (Messaging)
- GIS
- C++11
- Mobile App Development
- Databases, NoSQL
- Groovy/Grails
- Boost Libraries
- Twitter
- The Cloud

# POSSCON 2011

## Big Picture

- SC Dept. of Corrections
- Open Security-DHS
- Build a Business on Open Source
- Freedom Box
- Open Identity in Ecommerce
- Licensing
- Starting an Open Source Project
- Convert Projects to Open Source

# POSSCON 2011

## Education

- Classes using Open Source
- Reforming K-12 Education using Open Source
- Google Summer of Code / Code-in
- Open Source in Art
- 3D Printing and Intellectual Property
- Kickstarter
- Open Hardware
- Classroom Adoption of Open Source

# POSSCON 2011

## Speakers

- Scott McNealy Sun Microsystems
- Jim Jagielski Apache Software Foundation
- Steve Graham EMC
- Chris Aniszczyk Twitter
- Bdale Garbee HP
- Jonathan LeBlanc PayPal
- Carol Smith Google
- Dave Abrahams Boost Consulting





1301 Gervais St.  
Columbia, SC

<http://open-it-lab.com>



# Open Software

**Open Source Software** is software whose original source code is made freely available and may be redistributed with or without modification.

[open-it-lab.com/open/software](http://open-it-lab.com/open/software)

# Open Hardware

**Open Hardware** is hardware whose design is made publicly available so that anyone can study, modify, distribute, make and sell the design or hardware based on that design.

[open-it-lab.com/open/hardware](http://open-it-lab.com/open/hardware)

# Open Content

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OpenITLab

A part of  
IT-oLogy

[open-it-lab.com](http://open-it-lab.com)

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# Awareness

A **Dell Inspiron One 23 All-In-One** touch-screen desktop, which serves as the PC platform.



A **24 inch iMac**, which serves as the Macintosh platform.



A **One Laptop Per Child (OLPC)** machine, which contains the Sugar operating system.



A **Zareason Media server** - featuring Mythbuntu



An **Arduino Uno**, Open Source hardware.



A **Thing-O-Matic**, which is an Open Source 3D Printer. This is available to visitors to use and explore.





# Education

- One Hour Lab Tour
- Open 101 (2hr – Intro/Ad, 4 hr – Intro/Ad)
- Open 101 for Teachers
- Ubuntu 101 –Introduction and Advanced
- Open 201 – Open Software in Depth
- Open 202 – Open Hardware in Depth
- System Administration 101 – OS included
- OS From the Geospatial Perspective



# Research and Development

- Demonstrate that Open Source can be applied
- Students, teachers/professors, IT professionals can join a project and contribute
- Current project – Columbia Police Department
  - Make crime report information widely available
  - Web application
  - Mobile applications – Android, iPhone



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**IT-oLogY is a non-profit collaboration of businesses, academic institutions and organizations dedicated to growing the IT talent pipeline, fostering economic development and advancing the IT profession.**

**IT-oLogY has 3 initiatives:**



**Promote IT**

IT-oLogY works with K-12 schools to encourage the best and brightest young people and their parents to learn more about the IT profession.



**Teach IT**

In collaboration with IT-oLogY, companies work with colleges and universities on applied business research projects and experiential learning opportunities that strengthen and align classroom skills to current and future IT business needs.



**Grow IT**

IT-oLogY partners with IT professionals and their companies to provide innovative and life-long learning and professional development opportunities.







BlueCross BlueShield  
of South Carolina



VC3  
Assess | Improve | Manage  
Information Technology



TM Floyd & Company  
Building Better Solutions



redhat.



CISCO™

Immedion



Hubbell Lighting, Inc.

AGENTRON

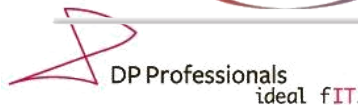


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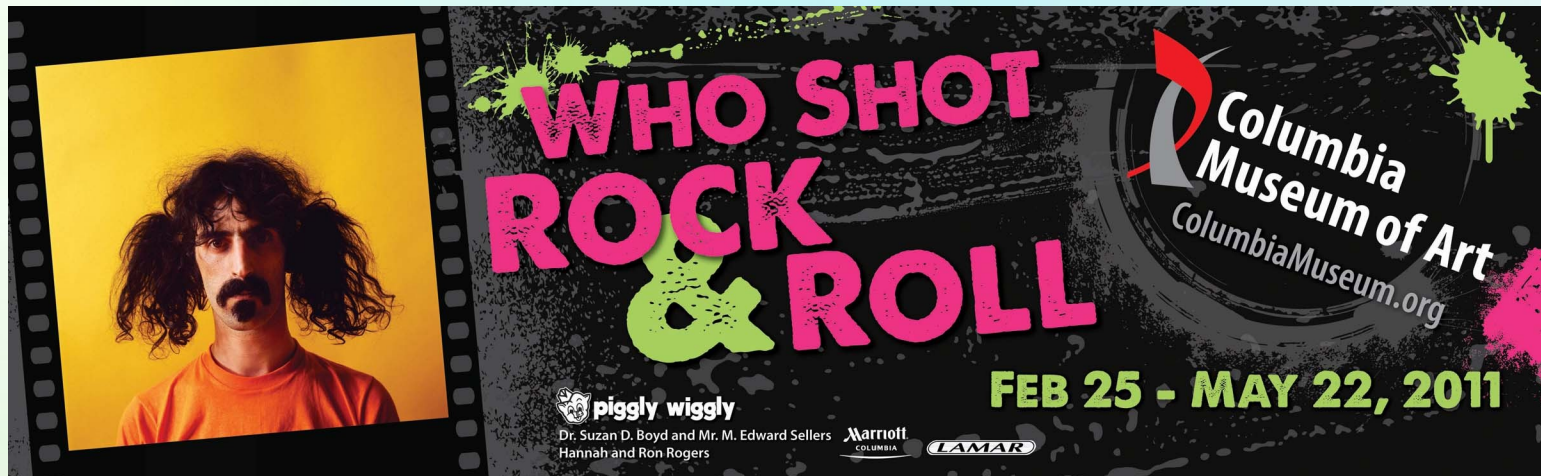


# Academic Partners



Stands For Opportunity

# Student as Professional





# Student as Professional



**Lexington Technology Center**



# Student as Professional

Nov 2010 – Jan 2011

**Team Members**



Project Manager  
Business Analyst  
Designer  
Developer/Programmer  
Quality Assurance

# Student as Professional

## Finished Product

<http://www.columbiamuseum.org/exhibitions/whoshotrock/index.php>

The screenshot shows the homepage of the 'Who Shot Rock & Roll' exhibition website. The header features the title 'WHO SHOT ROCK & ROLL' in large, stylized pink and green letters, with the subtitle 'A PHOTOGRAPHIC HISTORY, 1955 TO THE PRESENT' in green. The Columbia Museum of Art logo is in the top right corner. A navigation bar with a filmstrip background contains links: NEWS, EVENTS, PHOTOGRAPHER BIOS, OPENING PARTY, MULTIMEDIA, LOCAL PARTNERS, and EDUCATION TOOLS. The main content area on the left describes the exhibition as the first major one to put photographers in the foreground. A large black and white photo of a man with glasses is on the right. A call to action for museum membership is also present, along with a section for sponsors, including Piggly Wiggly.

**WHO SHOT ROCK & ROLL**  
A PHOTOGRAPHIC HISTORY, 1955 TO THE PRESENT

Columbia Museum of Art  
IN THE HEART OF DOWNTOWN, COLUMBIA SC

NEWS EVENTS PHOTOGRAPHER BIOS OPENING PARTY MULTIMEDIA LOCAL PARTNERS EDUCATION TOOLS

**Who Shot Rock & Roll** is the first major exhibition on **rock and roll** to put **photographers** in the foreground, acknowledging their creative & collaborative role in the *history* of rock music.

The exhibition includes 175 works by more than 100 photographers and

**SEE IT FIRST. SEE IT FREE. JOIN TODAY.**  
Museum Membership

**SPONSORS**  
Title Sponsor  
 **piggly wiggly**  
Feeds your life.



# Lessons Learned

- Different Careers in IT
- What it takes to complete a successful project
  - Unexpected things ALWAYS happen
  - Communication is key
- I can do this for a living





# Do you want to be a part of

# IT-oLogy™?

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Advancing IT Talent™